

What is claimed is:

1. A method of manufacturing a heat sink comprising the steps of:
preparing a metal plate having a plurality of slits and a plurality of metal fins each having a heat receiving portion and a heat dissipating portion;
inserting respective parts of said heat dissipating portions of said metal fins into respective slits of said metal plate;
pushing respective remaining parts of said heat dissipating portions down to a specific depth along configurations of said slits having a prescribed shape in such manner that said fins are press-connected to said metal plate.
2. A method of manufacturing a heat sink comprising the steps of:
preparing a metal plate having a plurality of slits each having a prescribed shape including a curved portion and a plurality of metal fins each having a heat receiving portion and a heat dissipating portion;
inserting respective one end portions in a longitudinal direction of said heat dissipating portions into respective said curved portions of said slits;
pushing respective remaining parts of said heat dissipating portions down to a specific depth along configurations of said slits using elasticity of said heat dissipating portions in such manner that said fins are press-connected to said metal plate.
3. The method as claimed in claim 1 or 2, which further comprises the step of plastic-deforming said metal plate in both sides of the respective parts of the heat dissipating portions which are inserted into said slits and press-connected to said metal plate to fix said fins to said metal plate.
4. The method as claimed in claim 1 or 2, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective one end portions in a longitudinal direction with remaining

portions paralleled each other.

5. The method as claimed in claim 1 or 2, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective both end portions in a longitudinal direction with center portions paralleled each other.

6. The method as claimed in claim 4, wherein said heat dissipating portions are placed in parallel and pushed down into said slits in such manner that respective heat receiving portions of said metal fins form a single heat receiving face as a whole.

7. The method as claimed in claim 6, wherein said heat sink includes a fin fixing member to transfix said heat dissipating portions placed in parallel, and said heat dissipating portions fixed by said fin fixing member are pushed into said slits until an upper end portion of said fin fixing member contacts with a lower face of said metal plate.

8. A heat sink comprising:

- a heat dissipating portion comprising a plurality of metal fins each having a heat receiving portion and a heat dissipating portion having elasticity;

- a fin fixing member to transfix said plurality of metal fins;

- a metal plate having a plurality of slits into which said respective heat dissipating portions are inserted and press-connected thereto with use of said elasticity; and

- a joining portion to join said metal plate and said heat dissipating portions which are inserted into said respective slits and fixed thereto.

9. A heat sink comprising:

- a heat dissipating portion comprising a plurality of metal fins each having a heat receiving portion and a heat dissipating portion having

elasticity;

a fin fixing member to transfix said plurality of metal fins;

a metal shield plate having a plurality of slits including curved portion into which said respective heat dissipating portions are inserted and press-connected thereto with use of said elasticity; and

a joining portion to join said metal shield plate and said heat dissipating portions which are inserted into said respective slits and fixed thereto.

10. The heat sink as claimed in claim 9, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective one end portions in a longitudinal direction with remaining portions paralleled each other.

11. The heat sink as claimed in claim 9, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective both end portions in a longitudinal direction with center portions paralleled each other.

12. The heat sink as claimed in claim 9, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits is parallel each other in a longitudinal direction.

13. The heat sink as claimed in claim 9, wherein each of said heat receiving portion and said heat dissipating portion of said fin comprises a square flat plate portion.

14. The heat sink as claimed in claim 13, wherein said plurality of fins are placed in parallel in such manner that respective heat receiving portions of said fins form a single heat receiving face as a whole.

15. The heat sink as claimed in claim 14, wherein said fin fixing member comprises a heat pipe.